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TRANSMITTAL FORM

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Application Number	10/642,676
Filing Date	Aug. 19, 2003
First Named Inventor	Videen
Art Unit	
Examiner Name	

Total Number of Pages in This Submission

5+

Attorney Docket Number

ARL 03-04

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Group
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	William Randolph (US Army Materiel Command)
Signature	<i>William Randolph</i>
Date	Nov 12, 2003

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application

Gorden Videen

Serial No.: 10/642,676

Filed: Aug. 19, 2003

Confirmation No.: To Be Assigned

Group Art Unit: To Be Assigned

Examiner: To Be Assigned

Docket No.: ARL 03-04

For: Systems and Methods for Analyzing Particle Systems Using Polarized Scattered Light

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

This information disclosure statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, and specifically:

under 37 CFR 1.97(b), or
(within Three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)

under 37 CFR 1.97(c) together with either a:
 Statement Under 37 C.F.R. 1.97(e), or
 a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97(b) time period, but before the final office action or notice of allowance, whichever occurs first)

under 37 CFR 1.97(d) together with a:
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(Filed after final office action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Enclosed is a check in the amount of \$. Please charge \$ to deposit account . At any time during the pendency of this application, please charge any fees required to Deposit Account pursuant to 37 CFR 1.25. The Commissioner is hereby requested to credit any overpayment to Deposit Account No. .

Applicant(s) submit herewith *Form PTO 1449A - Information Disclosure Statement by Applicant* together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may or may not be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56. As required by 37 C.F.R. §1.98(a), a legible copy of each document is provided.

A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on the form PTO 1449 and is enclosed herewith.

The following rights are reserved by the Applicant(s): the right to establish the patentability of the claimed invention over any of the listed documents should they be applied as reference, and/or the right to prove that some of these documents may not be prior art, and/or the right to prove that some of these documents may not be enabling for the teachings they purport

to offer.

This statement should not be construed as a representation that an exhaustive search has been made, or that information more material to the examination of the present application does not exist. Any statements or identifications regarding the relevance of any portion(s) of cited references should not be construed as a representation that the most relevant portion(s) have been identified, and the absence of such statements or identifications should not be construed as representations that there are no relevant portion(s). The Examiner is specifically requested not to rely solely on the materials submitted herewith. The Examiner is requested to conduct an independent and thorough review of the documents, and to form independent opinions as to their significance.

It is requested that the information disclosed herein be made of record in this application and that the Examiner initial and return a copy of the enclosed PTO-1449 to indicate the documents have been considered.

Respectfully Submitted,

By:

William Randolph
William Randolph
Patent Attorney
Reg. No. 28,986

Nov. 12, 2003

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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Attorney Docket No.

ARL 03-04

Serial No.

10/642,676

Applicant

Gorden Videen

Filing Date

Group

To be assigned

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A	5,028,119	7/2/91	Hegg, et al.	350	174	4/7/89
	B	5,060,063	10/22/91	Gary T. Freeman	358	101	7/30/90
	C	6,138,083	10/24/00	Gorden Videen	702	155	8/7/98
	D	6,163,408	12/19/00	Joseph Larussa	359	630	10/13/98
	E	6,239,873	5/29/01	Gorden Videen	356	369	11/13/00
	F	6,411,441	6/25/02	Gorden Videen	359	631	11/13/00
	G	6,414,797	7/2/02	Gorden Videen	359	631	11/13/00

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation
							Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

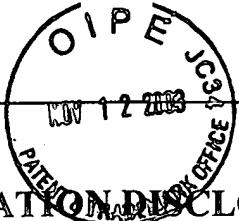
	H	Patent Application filed 11/6/00, assigned Serial No. 09/707,291 and entitled Wide-Angle Backscatter Probe Having a Rotatable Beamsplitter and Method of Measuring With Same
	I	Yu. G. Shkuratov, M.A. Kreslavsky, A.A. Ovcharenko, D.G. Stankevich, and E.S. Zubko; Opposition Effect from Clementine Data and Mechanisms of Backscatter; 1999; pp. 132-155
	J	Vera K. Rosenbush, Viktor V. Avramchuk, and Aleksandr E. Rosenbush; Polarization Properties of the Galilean Satellites of Jupiter: Observations and Preliminary Analysis; September 20, 1977; pp. 402-414
	K	Karri Muinonen; Coherent Backscattering by Solar System Dust Particles; 1993; pp 271-296
	L	Yu. Shkuratov, A. Ovcharenko, and E. Zubko, O. Miloslavskaya, K. Muinonen, J. Piironen, R. Nelson, W. Smythe, V. Rosenbush, and P. Helfenstein; The Opposition Effect and Negative Polarization of Structural Analogs for Planetary Regoliths; 2002; pp 396-416
	M	Michael I. Mishchenko; On the Nature of the Polarization Opposition Effect Exhibited by Saturn's Rings; The Astrophysical Journal; July 1, 1993; pp 351-361
	N	M. I. Mishchenko; Polarization Effects in Weak Localization of Light: Calculation of the Copolarized and Depolarized Backscattering Enhancement Factors; Physical Review B; December 1991; pp 597-600
	O	M. I. Mishchenko; Enhanced Backscattering of Polarized Light from Discrete Random Media: Calculations in Exactly the Backscattering Direction; J. Opt. Soc. Am. A/Vol. 9, No. 6/ June 1992; pp 978-982
	P	M. I. Mishchenko, Jean-Marc Luck, and Theo M. Nieuwenhuizen; Full Angular Profile of the Coherent Polarization Opposition Effect; J. Opt. Soc. Am. A/Vol. 17, No. 5/May 2000; pp 888-891

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

EXAMINER'S SIGNATURE:

DATE CONSIDERED:

Form PTO-1449



Attorney Docket No.

ARL 03-04

Serial No.

10/642,676

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant
Gorden Videen

Filing Date

Group
To be assigned

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	Q	6,124,928	9/26/00	Slater	356	317	3/6/98
	R	6,052,187	4/18/00	Krishnan, et al.	356	364	8/31/98
	S	4,770,529	9/13/88	Levinson, et al.	356	153	9/13/88
	T	6,097,488	8/1/00	Grek, et al.	356	364	8/1/00

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	U	Ismo V. Lindell, Ari H. Sihvolva, Karri O. Muinonen, and Peter W. Barber; Scattering By a Small Object Close to an Interface; J. Opt. Soc. Am. A/Vol. 8, No. 3/March 1991; pp. 472-476
	V	K. O. Muinonen; A.H. Sihvolva; I.V. Lindell; and K.A. Lumme; Scattering by a Small Object Close to An Interface; J. Opt. Soc. Am. A/Vol.8, No.3/March 1991; pp 477-482
	W	Karri Muinonen; Coherent Backscattering by Absorbing and Scattering Media; Sixth Conference on Light Scattering by Nonspherical Particles; pp 223-226
	X	J.E. Geak and M. Geake; A Remote-Sensing Method for Sub-Wavelength Grains on Planetary Surfaces by Optical Polarimetry; Mon. Nat. R. astr. Soc. (1990) 46-55
	Y	Milo Wolff; Polarization of Light Reflected From Rough Planetary Surface; Applied Optics; June, 1975; pp 1395-1405
	Z	K. Muinonen, M Kokko, S. Pohjolainen; and P. Hakala; Proceedings of the Finnish Astronomical Society; Observatory and Astrophysics Laboratory, University of Helsinki; 1990; pp 12-15
	A1	Nadia T. Zakharova and Michael I. Mishchenko; Scattering Properties of Needlelike and Platelike Ice Spheriods With Moderate Size Parameters; Applied Optics/Vol. 39, No. 27/ September 20, 2000; pp 5052-5057

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